

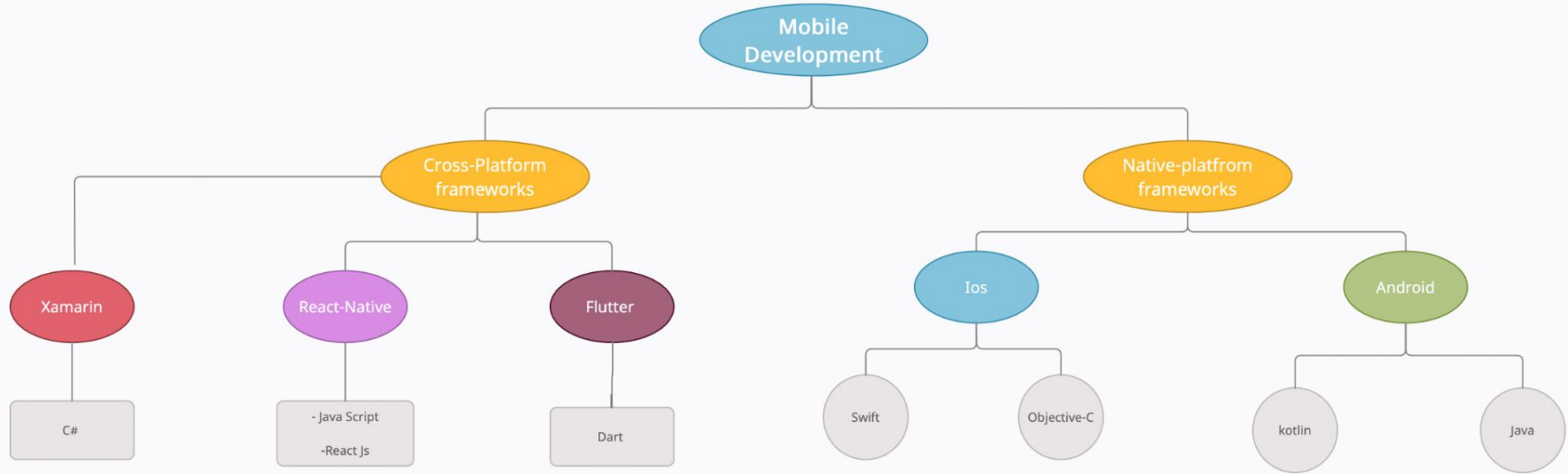
Flutter Sessions

Dart Session 1

Topics

- Intro To Mobile Development
- Into To Dart
 - Setup Environment
 - Dart Pad
 - Variables
 - Operators
 - Conditions
 - Loops
 - Collection Methods

Into To Mobile



Setup Environment Or Use DartPad

- [Dart SDK](#)
- [VSCode](#)
- [DartPad](#)

Create Dart Project

1. Create folder
2. Open it within vscode
3. Open terminal
4. Use this is cmd to create dart app:
 - 4.1. dart create name of app EX:"dart create dart_basics"
 - 4.2. cd name of app EX:"cd dart_basics"
 - 4.3. dart run

Variables

Everything in dart is Object because dart is OOP Language.

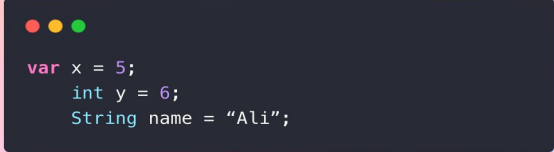


Variables cont.

Variable: is a memory location used to store data.

Q: How define and declare it?

dataType variableName = value;



```
var x = 5;  
int y = 6;  
String name = "Ali";
```

Variables cont.

Var vs Dynamic vs Object

Built-in data type

Custom data type

Const vs final vs late

Types of Dart Operators



Description	Operator	Associativity
unary postfix	<code>expr++ expr-- () [] ?[] . ?. !</code>	None
unary prefix	<code>-expr !expr ~expr ++expr --expr await expr</code>	None
multiplicative	<code>* / % ~/</code>	Left
additive	<code>+ -</code>	Left
shift	<code><< >> >>></code>	Left
bitwise AND	<code>&</code>	Left
bitwise XOR	<code>^</code>	Left
bitwise OR	<code> </code>	Left
relational and type test	<code>>= > <= < as is is!</code>	None
equality	<code>== !=</code>	None
logical AND	<code>&&</code>	Left
logical OR	<code> </code>	Left
if null	<code>??</code>	Left
conditional	<code>expr1 ? expr2 : expr3</code>	Right
cascade	<code>.. ?..</code>	Left
assignment	<code>= *= /= += -= &= ^= etc.</code>	Right

Conditions:

- If-statement
- If-else statement
- Switch Case statement

Conditions Ex:



```
var command = 'OPEN';
switch (command) {
  case 'CLOSED':
    executeClosed();
  case 'PENDING':
    executePending();
  case 'APPROVED':
    executeApproved();
  case 'DENIED':
    executeDenied();
  case 'OPEN':
    executeOpen();
  default:
    executeUnknown();
}
```

Loops:

- For Loop
- While Loop
- Do While Loop

List Methods:



Dart List Methods

`add()`

`contains()`

`every()`

`remove()`

`forEach()`

`join()`

`insert()`

`map()`

`sublist()`

`length()`

`where()`

`setAll()`

`indexOf()`

`reduce()`

`setRange()`

`firstWhere()`

`fold()`

`insertAll()`


`clear()`

`any()`

`sort()`

like and share

Assignments:



```
import 'dart:io';

void main(List<String> args) {
  stdout.writeln('Please enter your name');
  final String? userName;
  userName = stdin.readLineSync();
  print('The user Name is $userName');
}
```

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Any
Questions?